

Raising Awareness: A Brief Overview of Maryland's Antidegradation Policy and Current Case Studies





#### A Three-Legged Stool

- Designated Uses
- Criteria (narrative and numeric) to Support Uses
- Antidegradation Policy



# Maryland's Antidegradation Regulations

- Water quality better than the minimum criterion shall be maintained (COMAR 26.08.02.04 & .04-1)
- Defines assimilative capacity for high quality waters.
- Discharge(s) to waters designated as high quality require an antidegradation review.



# Maryland's Antidegradation Regulations, continued

- "Discharge" means:
- The addition, introduction, leaking, spilling, or emitting of any pollutant to waters of this State; or
- The placing of a pollutant in a location where the pollutant is likely to pollute.

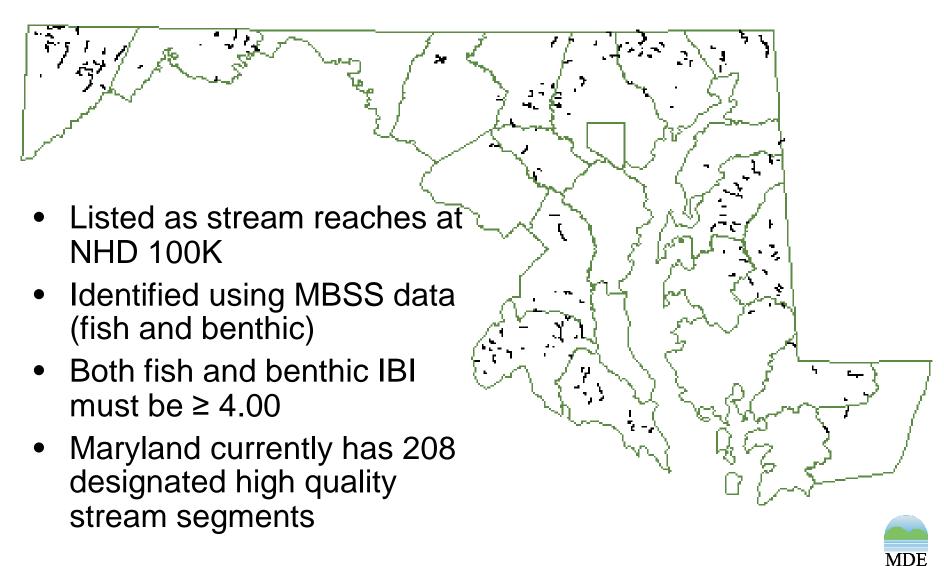


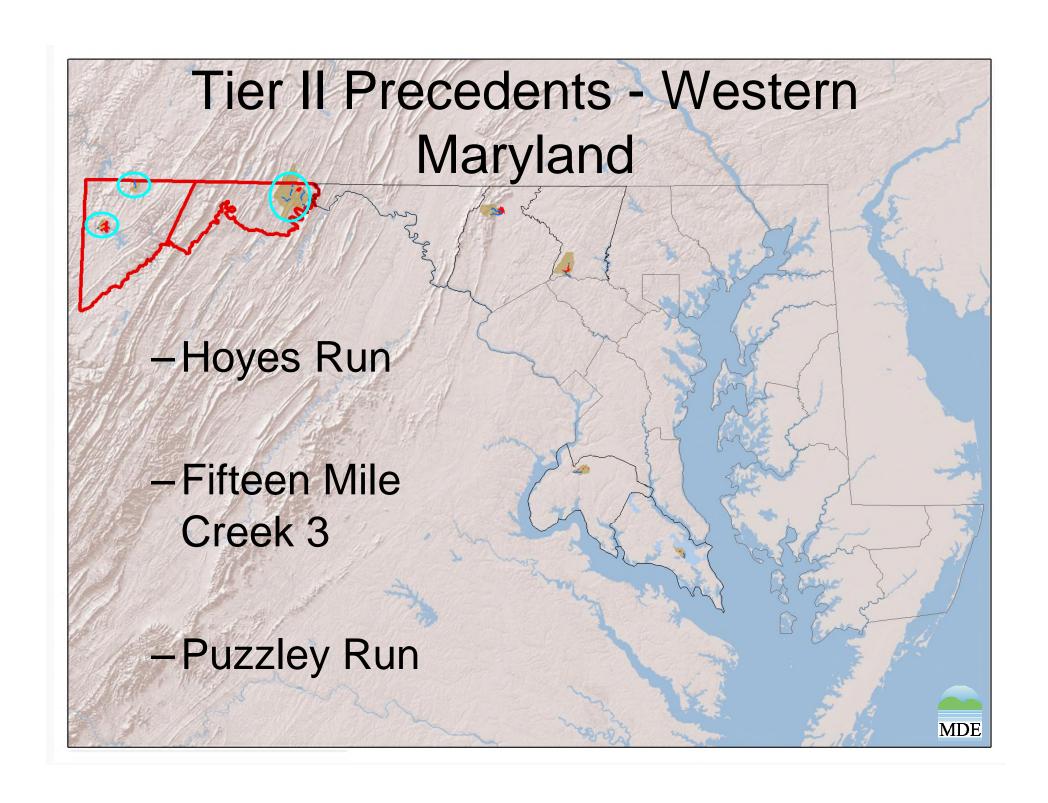
#### Antidegradation Review

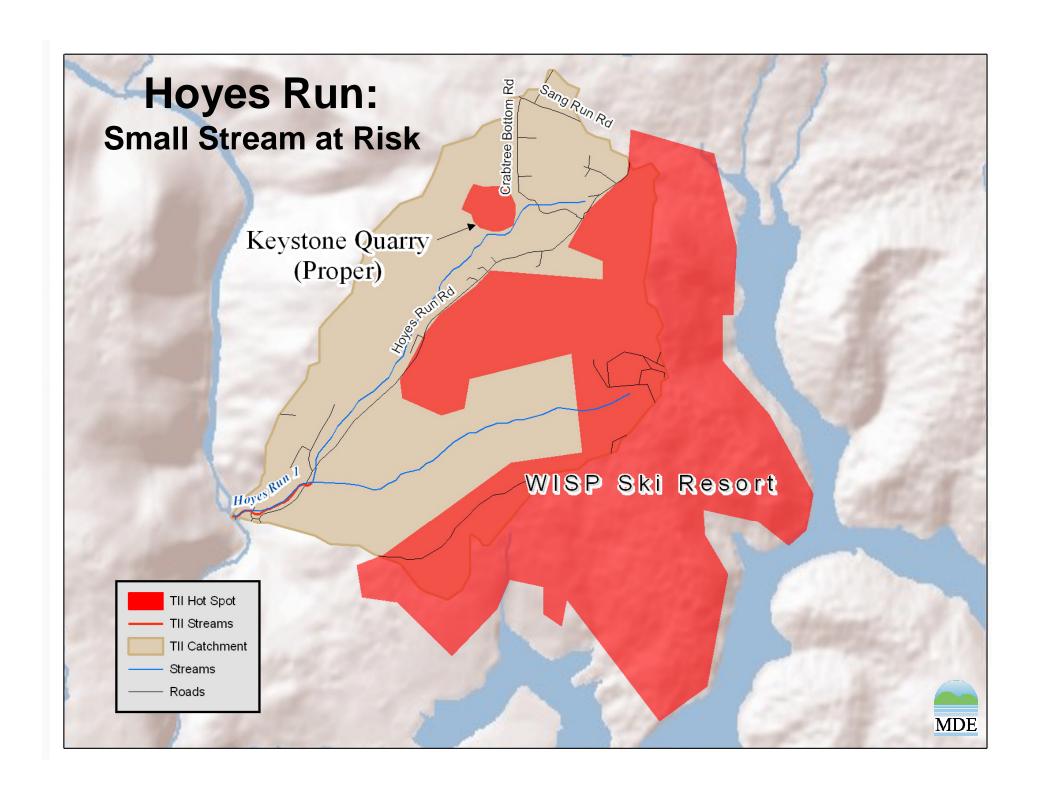
- Must consider a no discharge alternative(s)
- Must consider discharge modifications to limit the use of the assimilative capacity
- Must perform a social and economic justification If discharge will degrade a Tier II segment



## Maryland's Current High Quality (Tier II) Waters







#### **Hoyes Run: Unique Concerns**

- Trout Unlimited Interest: 3 naturally reproducing trout species
- \$250,000 Invested in stream restoration
- Multiple Threats:
  - WISP Resort Development and assoc. storm water
  - Quarry Discharges and mining permit
  - Groundwater Appropriation
- Fractured Rock Aquifer



Photo courtesy of MD DNR

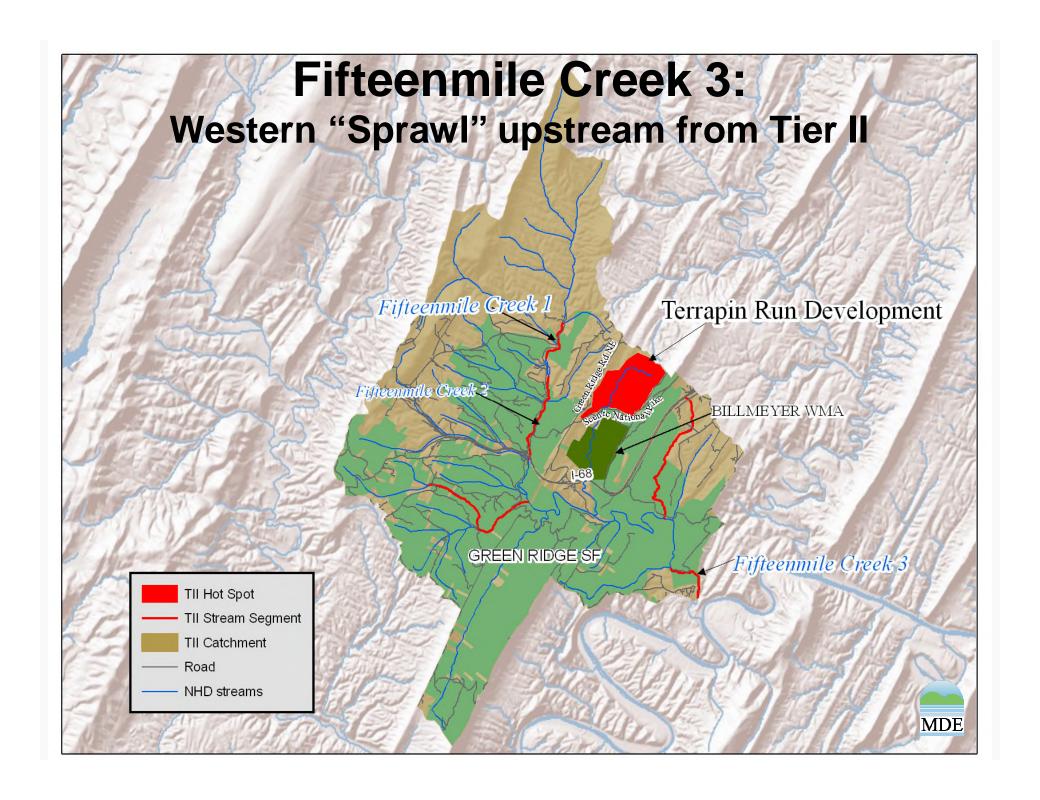




#### Draft Appropriation for Wisp Ski Resort

- 60,000 gpd limit for 300 units (applied for 500,000 to support 2500 units)
- Stream flow data collection required (July-Oct)
- Secure backup water source to completely replace Hoyes Run wells if necessary
- Additional monitoring required when using back up
- Upon permit renewal, data review required (including biological data)

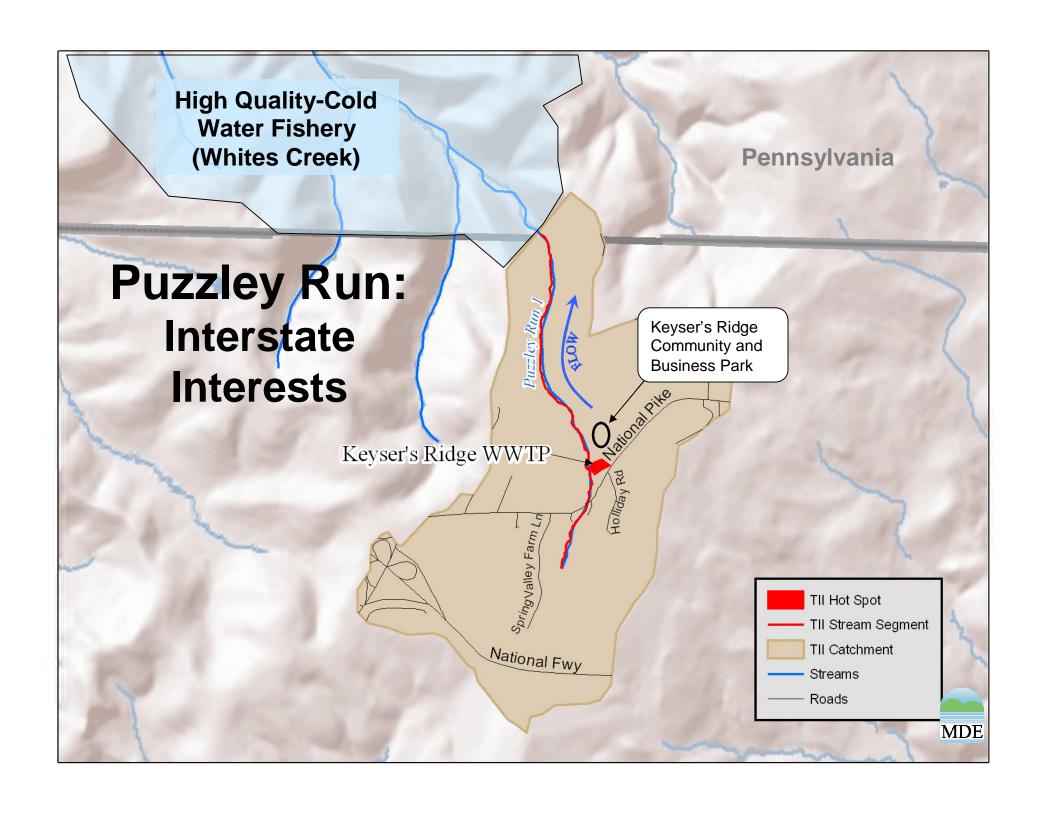




## Fifteenmile Creek 3: Unique Concerns

- Smart Growth/planning consistency and associated Legal Challenges
- State Forest and Wildlife Management Area
- Downstream Tier II protection
- Intermittent stream
- Nature Conservancy Interest (Harperella)
- MDE denied both the Water and Sewer Plan amendment and water appropriation permits for the project

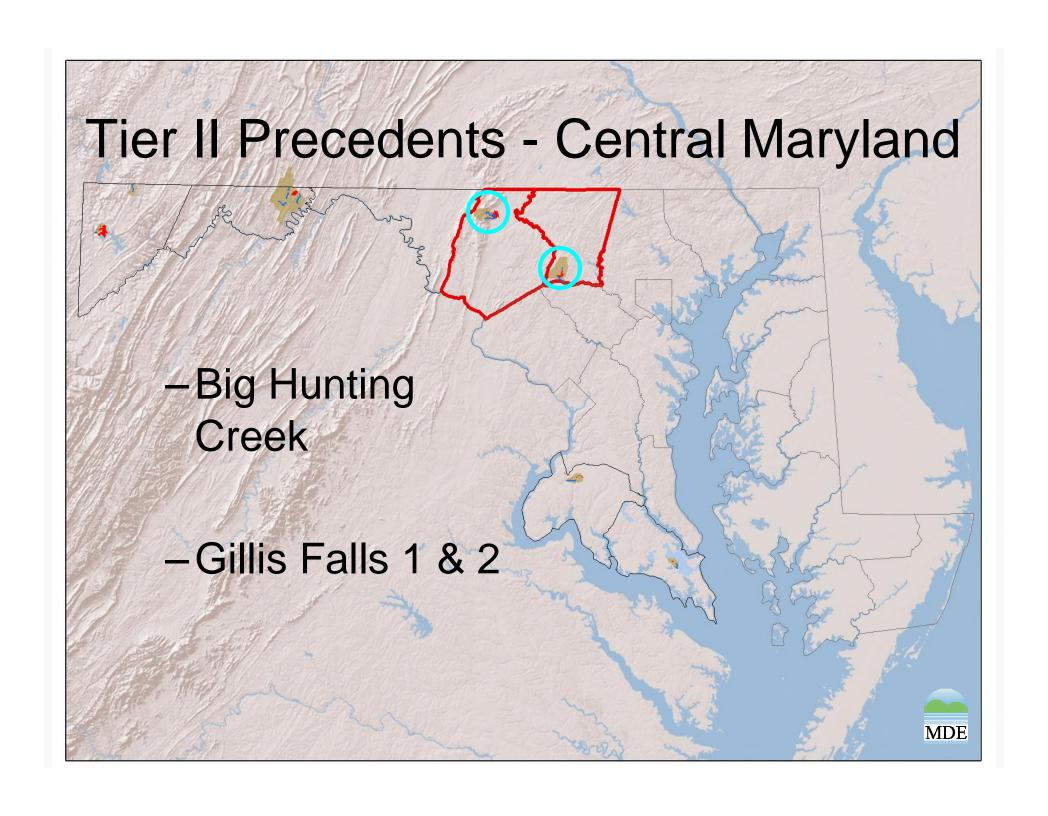


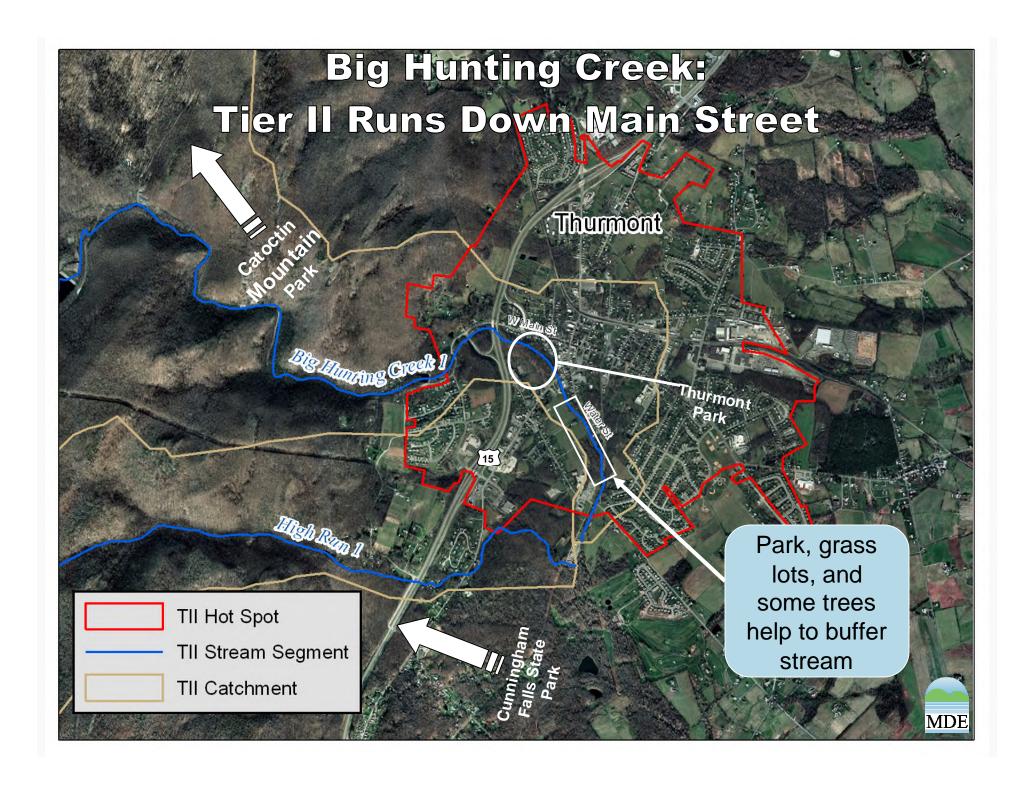


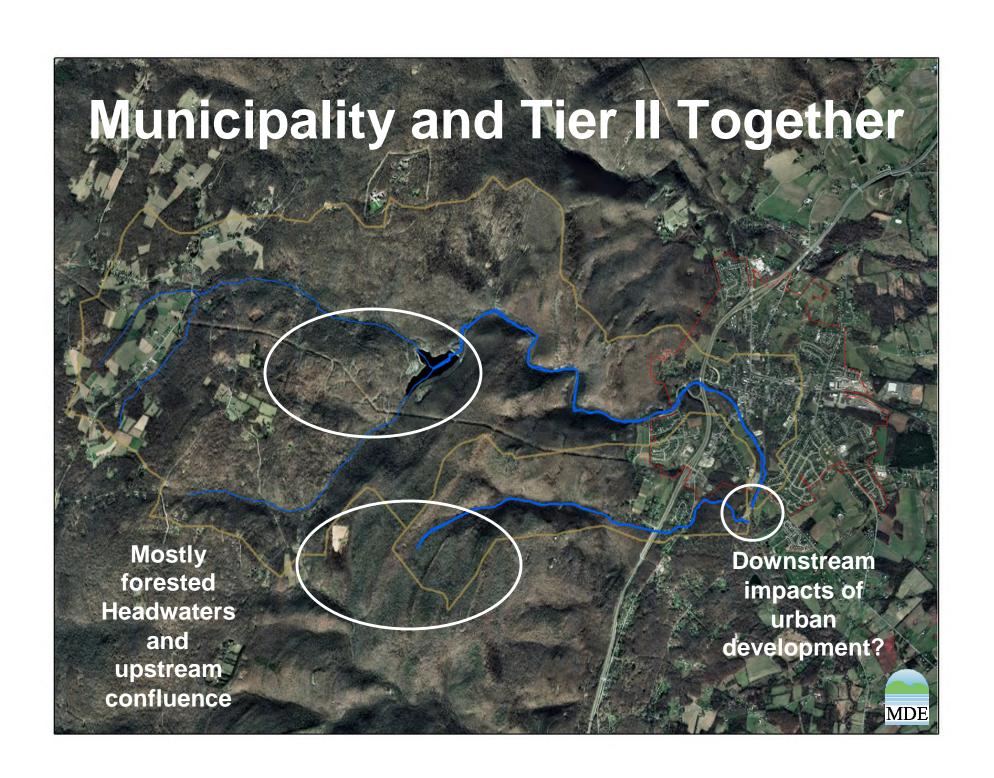
### Puzzley Run: Unique Concerns

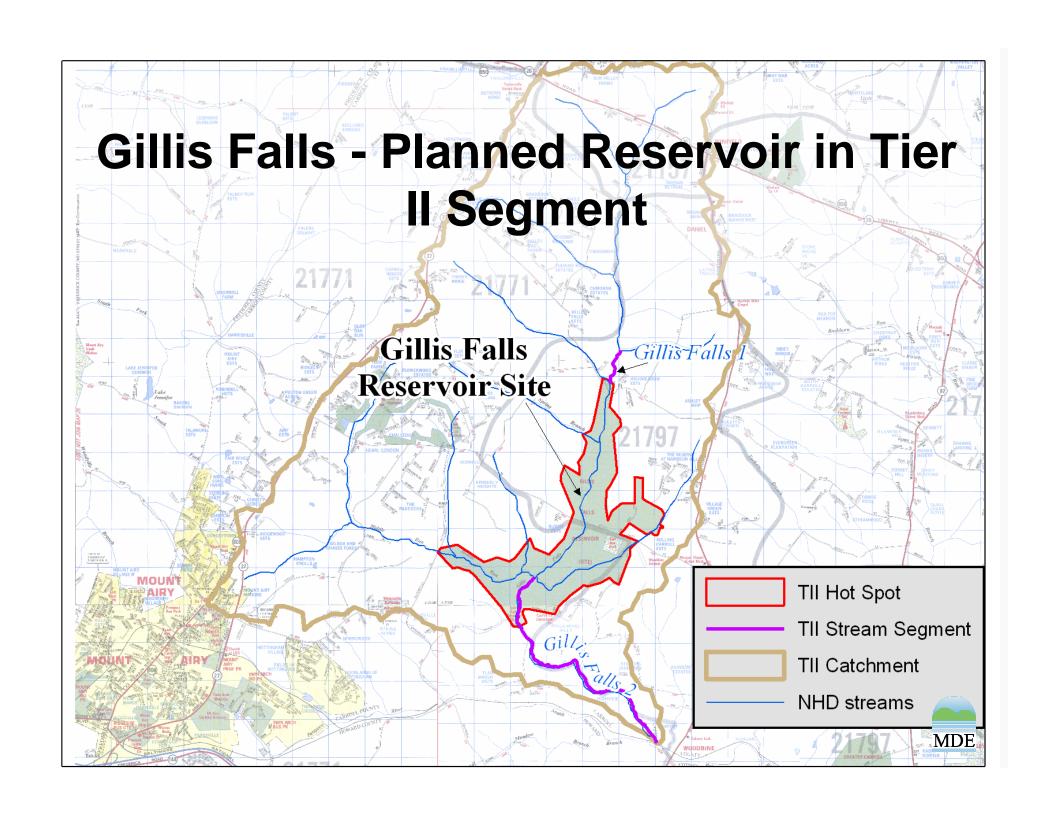
- Interjurisdictional water
  - Limits written into current permit reflect a combination of MD and PA requirements to protect the high quality cold water fishery in PA.
- Already has a permit (expires in 2010).
- Expansion of Municipal NDPES discharge.







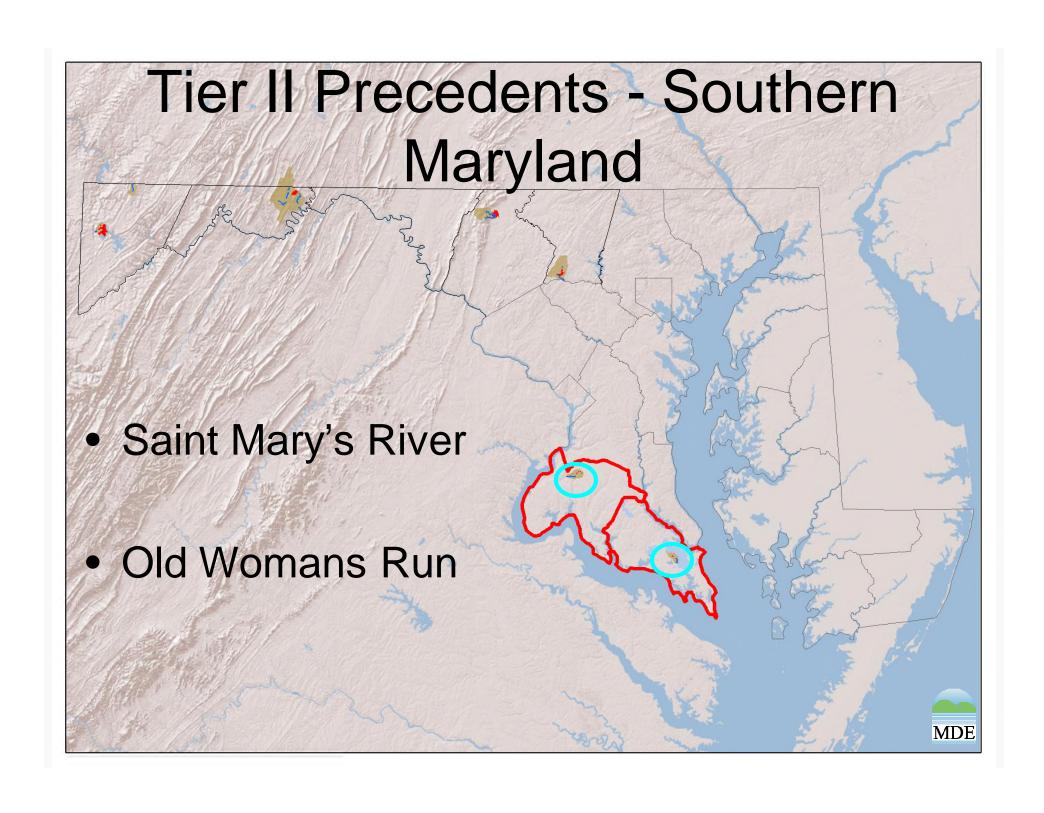


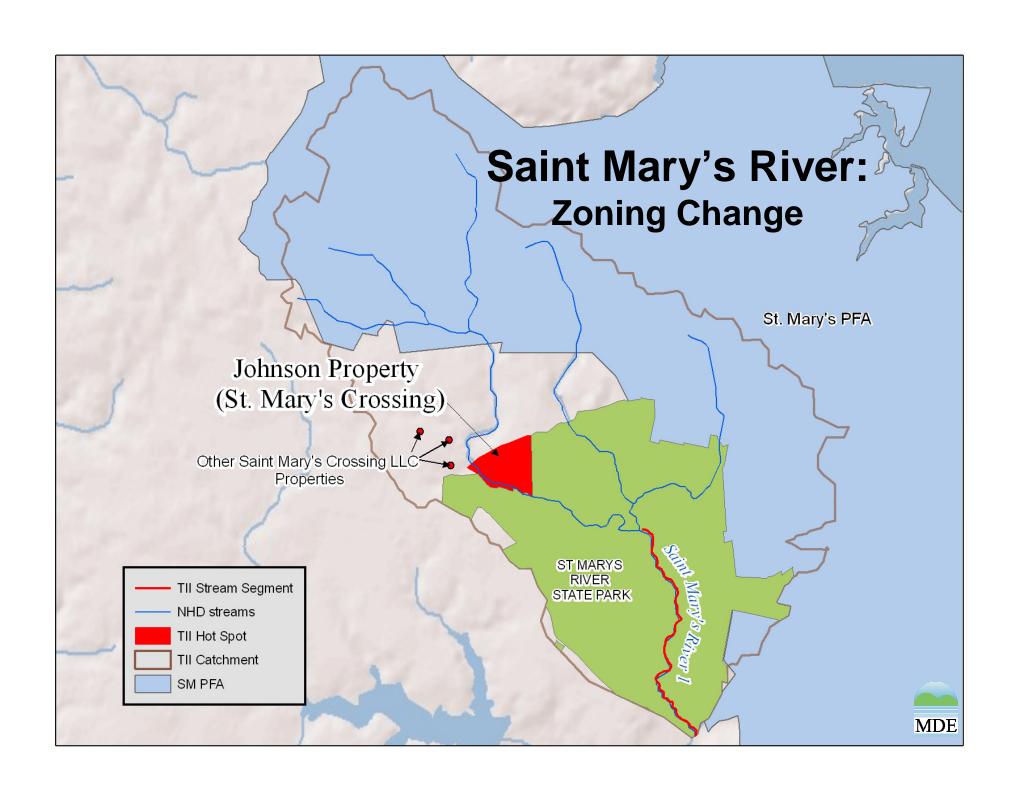


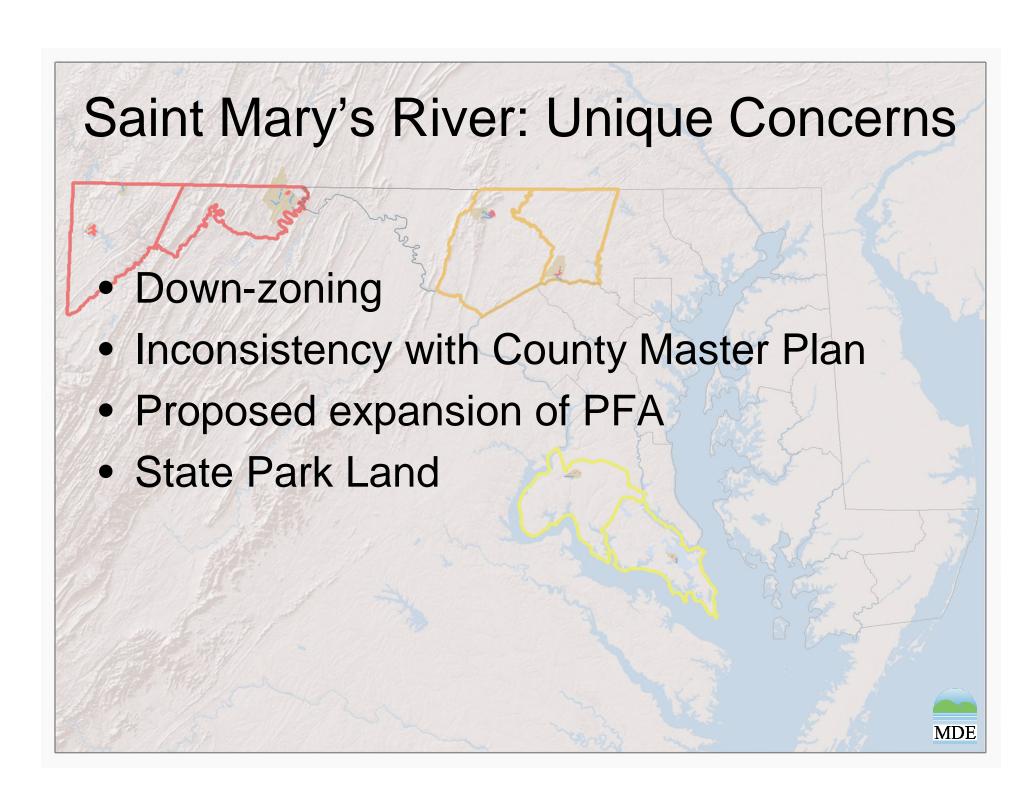
### Gillis Falls: Unique Concerns

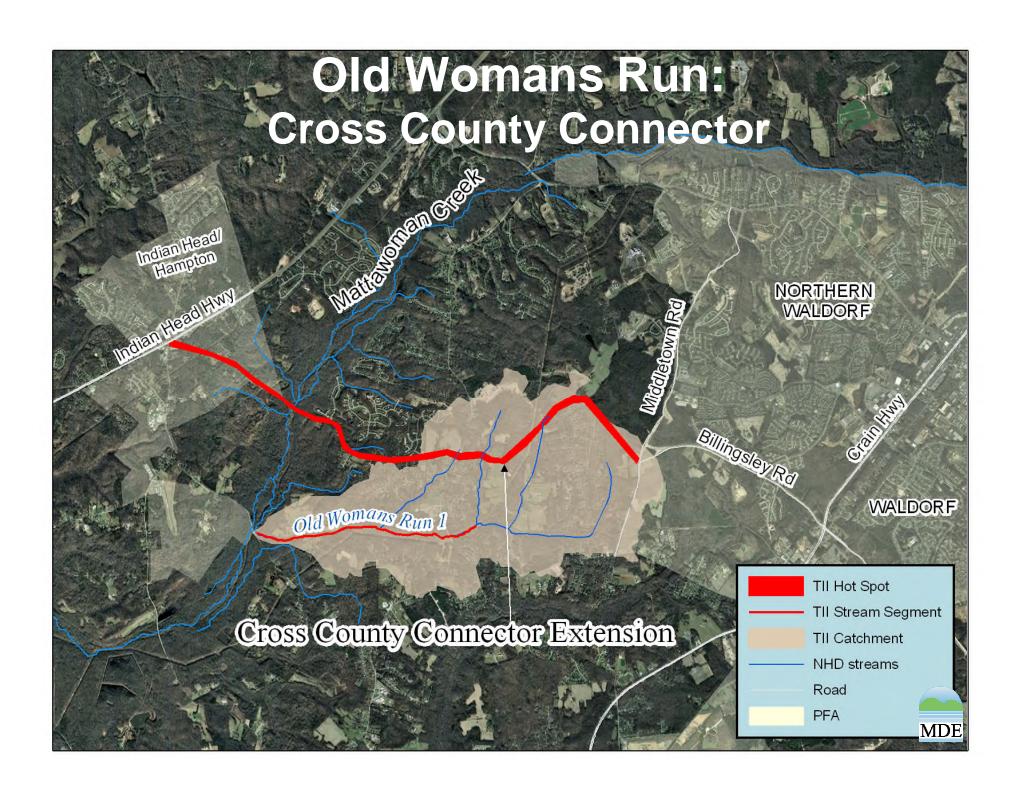
- Carroll County Planning officials understand the issue
  - They have independently created their own 'catchments' for all of their Tier II streams
- MDE is currently researching the protection of drinking water reservoirs through Tier II designation
- Potential SEJ







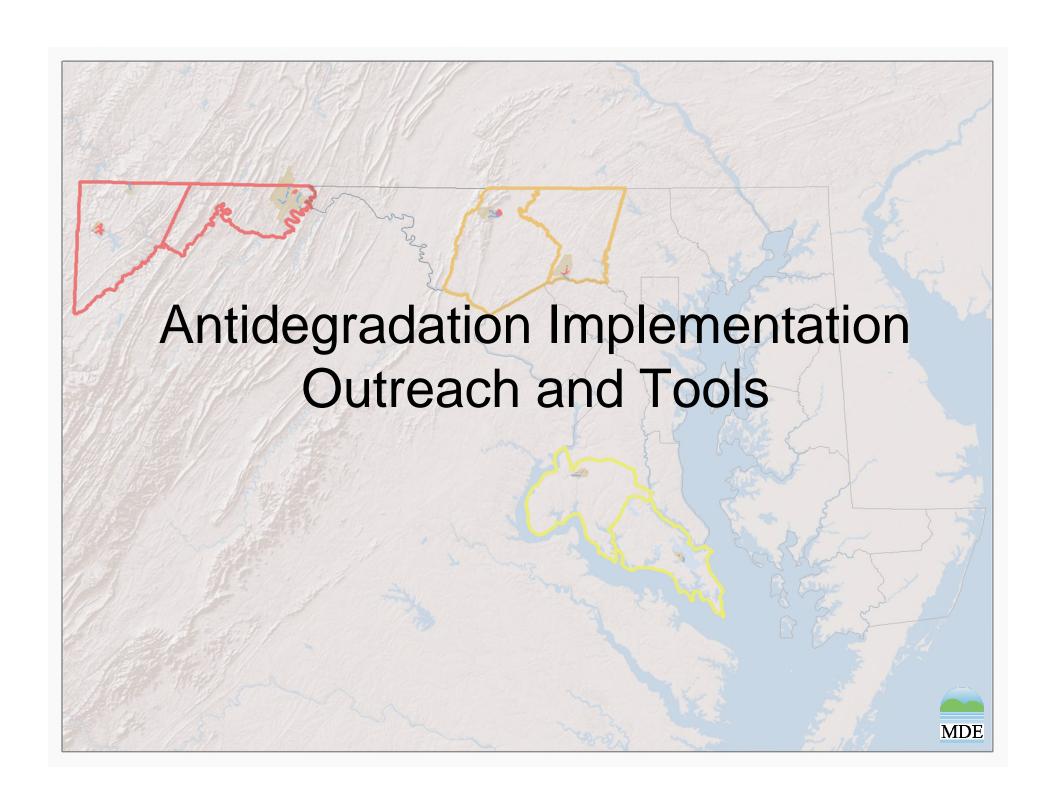


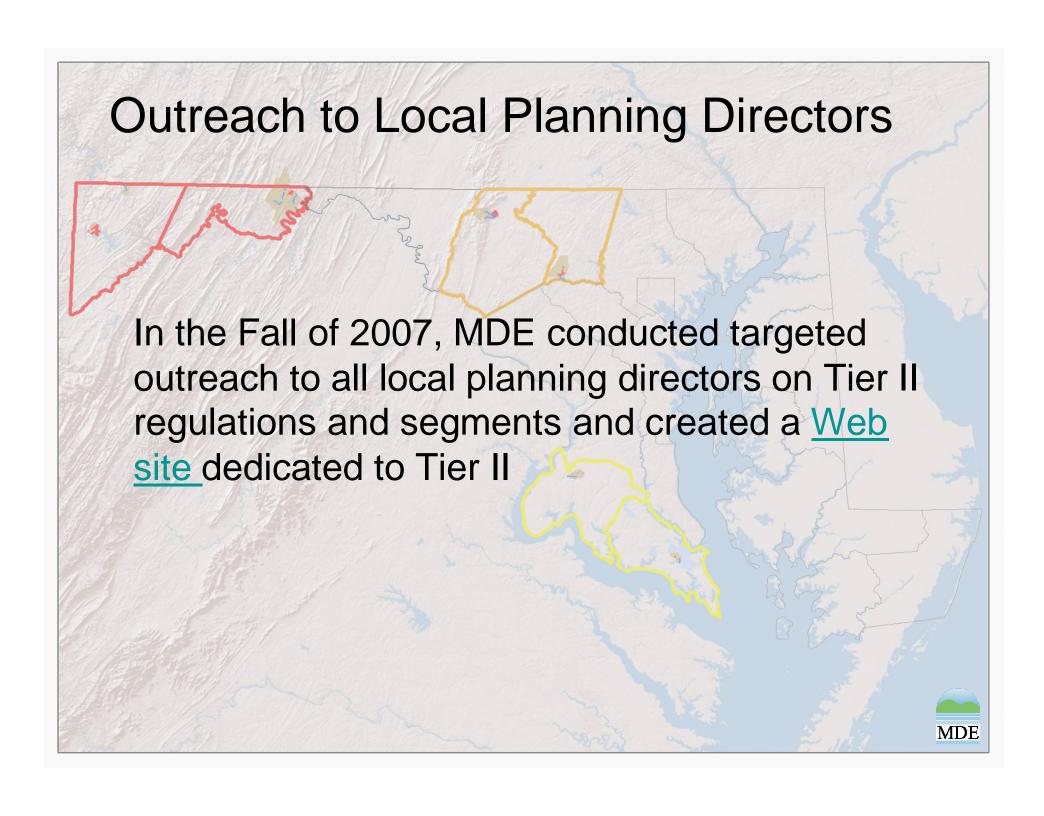


## Old Womans Run: Unique Concerns

- Actively engaged watershed group.
- DNR Fisheries services have stated that the "Mattawoman is the best most productive estuary in the Bay"
- MDE and USACE Involvement (404 permit, WQC, & Wetlands License).
- Watershed management plan was created in 2003 for the Mattawoman which estimated that planned development would increase pollution over 30%

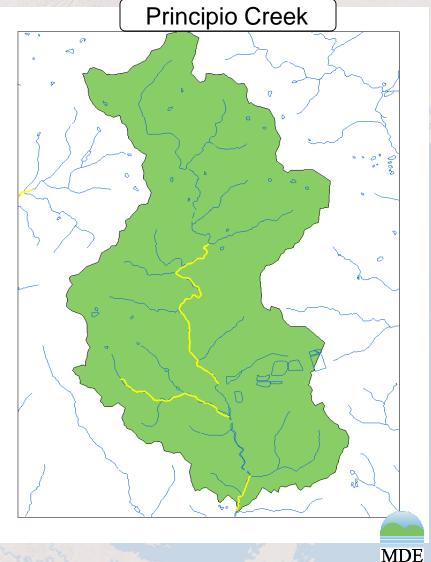






Maryland's GIS Layers for High Quality Waters

- Catchment or land drainage approximation for each Tier II stream
- All Tier II related information is in a geodatabase format to facilitate sharing



### MDE Developments

- Considering requiring Antidegradation Reviews for water appropriations.
- Holding internal meetings among permitting programs to standardize/enhance Tier II screening.
- Drafting implementation guidance for the regulated community.
- Healthy Waters Initiative devoted to protection.
- Developing Tier II prioritization tools.
- Monitoring to establish new Tier II segments.
- Assistance with WREs to incorporate Tier II concerns.





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